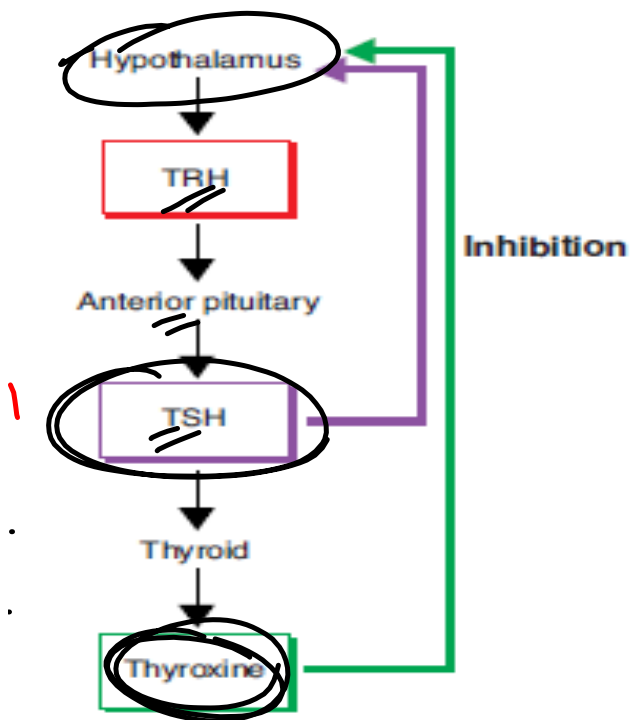


Hormone Regulation

- the body is able to regulate hormone production through a process called negative feedback.
- once the hormone produces the desired effect, the secretions are turned off.
- messages are sent back to the pituitary gland and the gland stops producing the hormone.



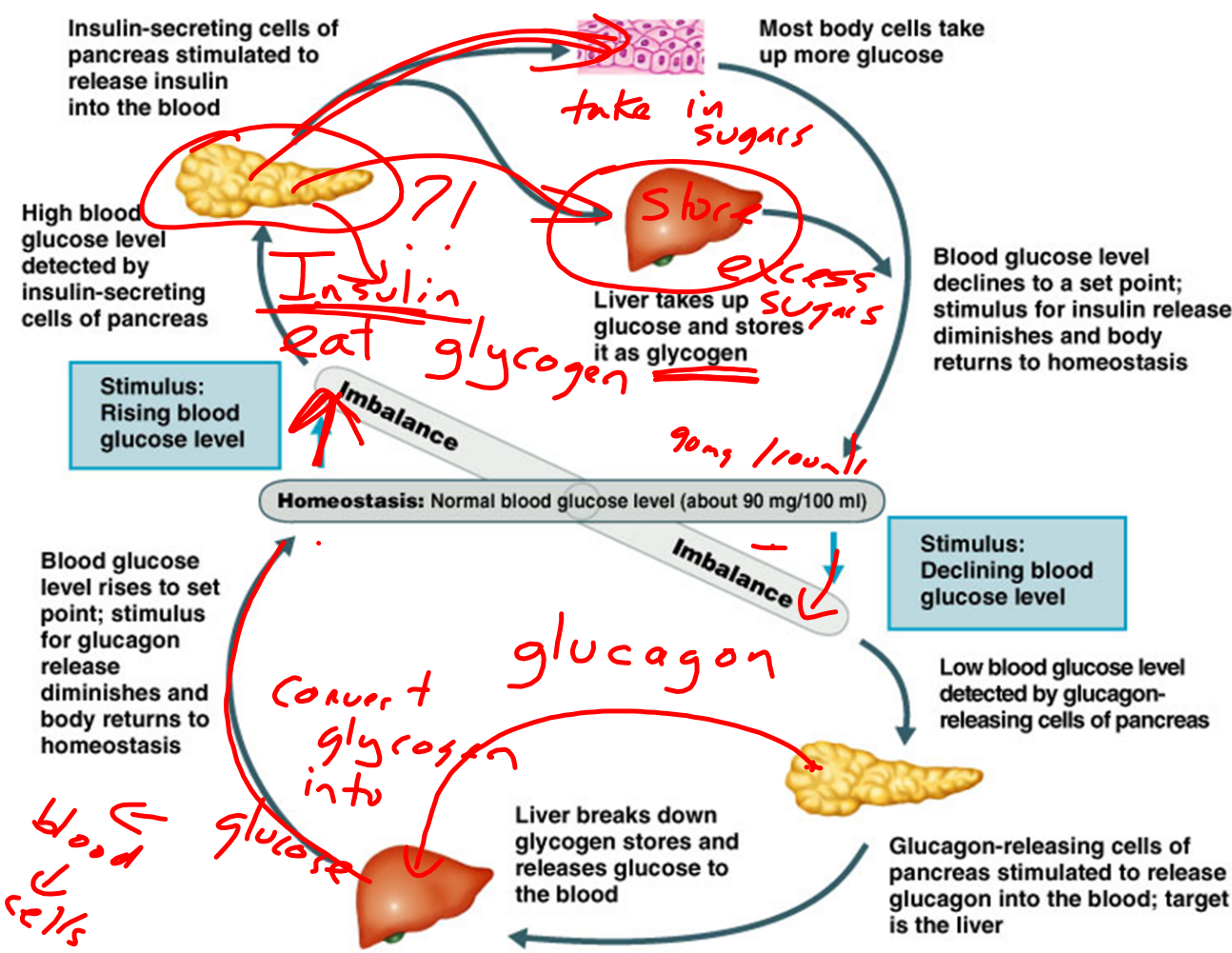
- hypothalamus senses low levels of thyroxine (regulates metabolism)

- message is sent to anterior pituitary to increase production of thyroxine. The hypothalamus sends thyrotropin releasing hormone to the pituitary gland

- TRH stimulates anterior pituitary to produce TSH (thyroid stimulating hormone)

- TSH is sent to thyroid and this increases production of thyroxine

- once levels of thyroxine increase a signal is sent back to the hypothalamus & production of TRH is inhibited.



Copyright © 2004 Pearson Education, Inc., publishing as Benjamin Cummings.

Watch the following video and explain the difference between a negative feedback loop and a positive feedback loop

https://www.youtube.com/watch?x-yt-ts=1421914688&v=CLv3SkF_Eag&x-yt-cl=84503534&list=PLCC2DB523BA8BCB53

